#### LISBON REFINERY JV, LLC

800 SPRING STREET **SUITE 205** SHREVEPORT, LOUISIANA 71101

TELEPHONE: 318-429-0271

Fax: 318-429-7103

April 29, 2009

VIA ELECTRONIC MAIL (valentine.greg@epa.gov). Original to follow via Federal Express.

Mr. Greg Valentine Environmental Protection Agency, Region 6 1445 Ross Avenue (6EN-AA) Dallas, Texas 75202-2733

RE:

Lisbon Refinery, JV, LLC

Information Request

Dear Mr. Valentine,

As a follow up to the letter dated April 22, 2009, please find Lisbon Refinery, JV, LLC (Lisbon) responses to section III Questions #5, #6, #9, #11, #13, and #20 in the Information Request issued on April 10, 2009.

- 5. As reflected in Lisbon's response to question #5 on April 22, Lisbon has made several attempts to locate the well sites using the Louisiana Department of Natural Resources SONRIS Database. Unfortunately, the information available was not adequate for locating the wells using SONRIS. Therefore, Lisbon has requested information from the trucking companies regarding specific location of the wells and is waiting for that information, however, TPG Transport records the Parish/County on the truck tickets. Attachment P contains maps of Louisiana and Texas with the Parishes/Counties highlighted indicating the location of the wells and an updated spreadsheet of parish locations.
- 6. A copy of Reid Vapor Pressure analyses for Tanks A1 and B2 are attached, **Attachment Q.** This analysis is representative of the contents stored in the tanks A1 and B2. Reid Vapor Pressure analysis is not yet completed on Tank M13 and Tank C3 and will be provided after analytical reports are completed.
- 9. Lisbon does not have any crude assays or Certificates of Analysis for the crude oil stored at the facility. It is not standard business practice in the oil and gas industry or the bulk terminal business to provide or request assays or Certificates of Analysis for the transfer of crude oil. The only parameter typically provided in most crude oil/ transactions is API Gravity, which is the only information we currently have available to characterize the crude oil received (except for the Reid Vapor Pressure analysis referenced in Item 6). APIG is commonly used to estimate RVP and other crude oil

EPA Information Request Lisbon Refinery, JV, LLC April 29, 2000 Page 2

properties (via correlation equations). Due to the variations in hydrocarbon composition between oil produced in differing production zones and fields, and the number of fields from which the crude oil has been received, the number of assays required would be very large and are not available to Lisbon.

- 11. As stated in the response to question #11 on April 22, air monitoring was conducted at the facility in 2007 during the cleaning and degassing of the tanks, the product release, and the removal of the product from the facility. Due to the volume of paper generated, copies of the results are in the Federal Express box that has been sent priority overnight for delivery on the morning of April 30, 2009 as **Attachment R**. To summarize, the air monitoring results include results of air monitoring performed by Altec Environmental Consultants on behalf of Lisbon on April 27, April 30, May 1, May 3, May 9, May 21, May 31, June 8, June 18, June 25, June 26, 2007, LDEQ sample taken April 20, 2007, LDEQ Mobile Air Monitoring Laboratory Report May 24 25, 2007, results of samples collected by Altec on behalf of Lisbon June 26, 2007, samples taken by Altec on behalf of Lisbon June 28, 3007 the PACE Analytical report, results of samples collected by LDEQ on July 9, 2007, results of air monitoring and samples collected by Altec on behalf of Lisbon July 30 through August 7, 2007, and LDEQ air monitoring August 6, August 9, August 13, and August 20, 2007.
- 13. **Attachment S** is the internal log of when product was loaded out of tanks in 2007. Attachment N sent on April 22, 2009 contains the records of when the Tanks were cleaned and degassed. B and C were cleaned and degassed by Anderson Pollution Control Inc. Tank B2 was completed on Tuesday, February 3, 2009 and Tank C3 Friday, February 6, 2009.
- 20. **Attachment T** is the Sampling Plan. Lisbon personnel have tentatively scheduled the sampling for Thursday, May 7 at 10:00 am, pending availability of EPA and LDEQ representatives.

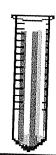
Please contact me at 318-429-0271 with additional questions or clarifications of the information presented.

Respectfully submitted,

Lisbon Refinery, JV, LLC







# **FALKNER** LABORATORIES, INC. 1039 PEARL DRIVE P.O. BOX 5438

BOSSIER CITY, LA 71111 • 71171

PHONE: 318-746-2404 FAX: 318-742-1448

LAB REPORT NUMBER: 4-0446903a	and the second s		EPORT DATE: pril 8, 2009	
CUSTOMER/ CLIENT NAME				
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Karen Courtman			ate received: oril 8, 2009	
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Test Description	Sample	QAQC	To a form	
Method Number	Results	Standard/Duplicate	Date/Time Analyzed	Analyst Initials
<u>Гапк А-1</u>				
Reid Vapor Pressure, psi ASTM D 323	10.4		4/8/09	RM
<u> </u>				
Reid Vapor Pressure, psi ASTM D 323	10.1		4/8/09	RM

A: The results of this test relate only to the items tested.

B: This report will not be reproduced except in full, without the written approval of the laboratory.

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	Falkner Laboratories, 039 Pearl Drive PO Box 5438 ity, LA 71111 Bossier City, LA 7117	Ronky Jackson			ne, contact and add		Special Instructions/Comments		Date/Time	1/8/00	4/8/02			
	Falkner Laboratories, Inc 1039 Pearl Drive PO Box 5438 Bossier City, LA 71111 Bossier City, LA 71111-5438	Company Name: $\bigwedge_{i=1}^{n} \mathcal{N}_{i} \mathcal{N}_{i}$	Contact Name:	Phone Number:	Invoice to: (company name, contact and address)		Special Ir		Sample ID	1-4	8:2			

T.

## LISBON REFINERY, JV, LLC

LISBON, LOUISIANA

## SAMPLING AND ANALYSIS PLAN VOC AND SVOC ANALYSIS OF OIL

**APRIL 23, 2009** 





2001 East 70<sup>th</sup> Street, Suite 503 Shreveport, Louisiana 71105 (318) 797-8636

C-K Associates' Project No. 4399

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#### **Attachments**

- A EXAMPLE CHAIN OF CUSTODY
- B SITE-SPECIFIC HEALTH AND SAFETY PLAN

#### 1.0 INTRODUCTION

This Sampling and Analysis Plan (SAP has been prepared to satisfy the Item 20, Section III, of the Notice of Violation (NOV) and Information Request issued to Lisbon Refinery J.V., LLC (Lisbon) by the United States Environmental Protection Agency (USEPA), dated April 9, 2009. The NOV was issued as a result of an inspection on April 2, 2009.

Lisbon is a bulk storage terminal facility located at 18647 Highway 2 in Lisbon, Louisiana. The site is located on approximately 20 acres and consists of a main office trailer, a loading rack for trucks, and multiple aboveground storage tanks (ASTs). The facility was formerly part of a refinery, which is no longer present.

The SAP is intended to provide protocols and procedures for arranging, collecting, and analyzing oil product samples contained in the active tanks at Lisbon. The oil product stored in the active tanks at Lisbon is a blend of produced hydrocarbon liquids from multiple well locations in the region. The produced hydrocarbon liquids are commonly known as crude oil or condensate, which are referred to as "oil" in this SAP.

The analysis will be intended to identify the composition of Volatile Organic Compounds (VOC) and Semi-Volatile Organic Compounds (SVOC) in the oil stored in each tank. Consistent with the requirements of the NOV, this SAP specifies analysis of the oil using EPA Method 8260B (VOC) and EPA Method 8270C (SVOC). This SAP provides for split sampling to be conducted by the USEPA or the Louisiana Department of Environmental Quality.

Lisbon personnel and representatives will include the following:

Karen Courtman (Lisbon) Ronnie Jackson (Lisbon) Gordon Moore (C-K) Facility Representative Facility Manager Project Manager

Mr. Moore will serve as the Quality Assurance Manager for the SAP.

#### 2.0 BACKGROUND

Lisbon is located at the site of a former refinery, which was operated by others. The tanks used by Lisbon are separate and operated independently of the former refinery operations.

There are currently 4 active oil tanks at Lisbon, A1, B2, C3, and M14. Two other tanks, D4 and F6 are permitted under LDEQ Air Permit No. 0620-00002-06 to receive oil but have not been used and are empty. Each of the tanks is located within earthen bermed containment areas. The oil is received in tanker trucks and unloaded from the trucks

using a transfer pump and piping manifold. The manifold allows Lisbon to control which tank is filled when trucks are unloaded.

There are no previous investigatory records for any similar projects at Lisbon.

#### 3.0 PROJECT DATA QUALITY OBJECTIVES

The SAP is intended to provide adequate quality data to identify the VOC and SVOC content in the oil contained in each active tank at Lisbon. All active tanks will be sampled.

Being that hydrocarbon oils are a natural blend of components, it is anticipated that VOCs and SVOCs will be detected in all samples. The lack of detection of any particular VOC or SVOC and/or the presence of any relatively high concentration of any particular compound does not indicate quality control issues. Naturally occurring hydrocarbons contain ranges in organic compounds which vary between reservoirs, which may result in variations in composition. As a result, there are no comparative limits or threshold concentrations to be used for evaluation of the results.

The VOC and SVOC composition of each tank's contents will from the sampling and analysis of the oil in each tank. All samples will be gathered during a one-day sampling event.

With no specific comparative regulatory limits, there are no specific decision making criteria which will dictate data quality objectives. It is anticipated the EPA-8260B and EPA-8270C analysis (gas chromatography) of pure hydrocarbon product will require dilution in order to obtain reportable concentrations. As a result, the reporting limits will be elevated due to dilution of the sample.

Duplicate samples, field blanks, and matrix spikes will be included in the sampling protocol to be evaluated as data quality indicators. Data quality indicators for the work performed in the laboratory will be those set forth in the laboratory Standard Operating Procedures.

All data will be handled by the Project Manager.

#### 4.0 SAMPLING RATIONALE

One sample set will be collected individually from each tank. Each sample will be considered to be representative of the entire contents of the tank. One of the sample sets from one tank will be split resulting in a sample and a duplicate sample. Each tank is equipped with a sample port which will allow for connection of tubing to fill sample containers. The sample port and associated valve will be operated by Lisbon personnel.

C-K personnel or agency personnel collecting split samples may handle the containers during sample collection.

#### 5.0 REQUEST FOR ANALYSES

Analytical support for the project will be provided by SPL, Inc. SPL is LDEQ-accredited for EPA Methods 8260B and 8270C. Table 1 will used as a request for analytical services.

TABLE 1
LABORATORY ANALYSIS OF OIL SAMPLES

Analysis Requeste	ed			VOC	SVOC
Method				8260B	8270C
Preservatives				< 4 C	< 4 C
Holding Times				<7 days	<7 days
Containers	40 ml vials	40 ml vials			
Turn Around Time	<10 days	<10 days			
# Containers per s	sample			3 each	3 each
Sample ID	Location Date Time				
A1DDMMYY	A1DDMMYY Tank A1				$\sqrt{}$
B2DDMMYY	B2DDMMYY Tank B2				$\sqrt{}$
C3DDMMYY	Tank C3				$\sqrt{}$
M14DDMMYY	Tank M14				$\sqrt{}$
Z1DDMMYY	Tank Z1			$\sqrt{}$	$\sqrt{}$
TBDDMMYY	Trip Blank				
FBDDMMYY	Field Blank			$\sqrt{}$	$\sqrt{}$

#### 6.0 FIELD METHODS AND PROCEDURES

Field methods and procedures will be implemented to collect oil samples from each active tank at Lisbon. All samples will be grab samples. Sampling will generally begin at Tank A1 and then proceed to the other active tanks. Duplicate samples will be collected at Tank A1. During sample collection, Lisbon personnel will operate valves to allow for sampling. C-K or agency personnel will hold containers to collect the samples.

All personnel handling samples will wear protective rubber gloves which will be changed between the sampling of each tank. The following procedure will be used after the sampling valve is opened by Lisbon personnel:

- Allow the sampling port to flow oil for at least 10 seconds into a containment pan to allow for purging of any contaminants in the sampling port or associated tubing.
- Using a 40-ml vial with a Teflon-lined septum, gently fill the vial with the oil sample. Care should be taken to not create bubbling of the sample as this causes loss of the volatile contaminants of interest. Over fill the 40 ml vial producing a positive meniscus. Carefully place the vial cap on the vial. Check to insure there are no bubbles in the sample. Empty and refill the vial if a bubble is found. A minimum of six replicate vials should be collected for each sampling location.
- Place the vial in a container out of heat and sunlight. EPA SW846 Chapter 4,
   Section 4.1.2 indicates that the sample should be placed on ice for shipment to an off-site laboratory.

Equipment required for the sampling event will include:

- 40 ml vials
- Sample labels
- Chain of Custody Forms
- Field book
- Ice chest with ice
- Rubber gloves
- Safety glasses
- Protective clothing

Decontamination of sampling equipment (valves and tubing) and pans will be handled by Lisbon. No other decontamination should be required.

#### 7.0 SAMPLE CONTAINERS, PRESERVATION AND STORAGE

All sample containers will be 40-ml glass vials with a Teflon-lined septum cap. All sample containers will be provided pre-cleaned by the contract laboratory, SPL. No preservation is required for oil product samples, other than chilling the samples to < 4 C immediately upon collection. Six 40-ml vials will be collected for each sample.

#### 8.0 DISPOSAL OF RESIDUAL MATERIALS

All residual free oil will be returned tanks of origin. The only other investigatory derived wastes (IDW) are anticipated to be rubber gloves and possibly PPE if utilized.

Used PPE and any disposable equipment will be inspected to ensure there is no free oil present. IDW will be double bagged and place in a municipal refuse dumpster. These wastes are not considered hazardous and can be sent to a municipal landfill.

Any spilled oil will be handled in accordance with the facility SPCC Plan. No other residual wastes are anticipated.

#### 9.0 SAMPLE DOCUMENTATION AND SHIPMENT

A field logbook will be used to document field notes, including but not limited to:

- Sample location and description
- Site or sampling area sketch showing sample locations
- Sampler's name
- Date and time of sample collection
- Designation of sample as composite or grab
- Type of sample (oil)
- Field observations relating to integrity of samples (weather, odors, colors, etc.)
- Sample preservation
- Identification numbers
- Shipping arrangements
- Laboratory name
- Team member and responsibilities
- Time of arrival and departure
- Summary of meetings
- Deviations from SAP
- Safety protection

No photographs will be required.

All sample containers will be labeled in a clear and precise way. Each container will be labeled with the following information:

- Sample ID
- Date of collection
- Time of Collection
- Analytical parameters
- Method of preservation

A chain-of-custody form, provided by the contract laboratory, SPL, will be completely filled out (see example Attachment A).

Samples will be placed in an insulated cooler, with ice packed in zip-locked, double plastic bags. All samples will be placed in zip-locked bags and wrapped in bubble wrap to prevent breakage. All container caps will be secured and taped. The completed chain of custody will be placed in the cooler and the cooler taped shut. The cooler and samples will be shipped via Federal Express overnight shipment to SPL's laboratory in Lafayette, Louisiana.

#### 10.0 QUALITY CONTROL

Field quality control samples will include field blanks and duplicate samples. One set of field blanks (6 40-ml vials) will be filled in the field between sampling of tanks. Deionized water will be used.

Duplicate samples will be collected at Tank A1 to assess field variability. A total of 12 40-ml vials will be collected from Tank A1. Duplicate samples will be preserved, packaged, and sealed in the same manner as other samples. A separate sample number and station number will be assigned to each duplicate, and it will be submitted blind to the laboratory. The duplicate sample will have the designation of Tank Z1.

Split samples may be collected at the discretion of the administrative authority (LDEQ or USEPA).

Laboratory quality control will be consistent with Standard Operating Procedures for the contract laboratory, SPL.

#### 11.0 FIELD VARIATIONS

As conditions in the field may vary, it may become necessary to implement minor modifications to sampling as presented in this plan. When appropriate, the administrative authority or their representatives at the site will be consulted and a verbal approval will be obtained before implementing the changes. Modifications to the approved plan will be documented in the sampling project report.

#### 12.0 FIELD HEALTH AND SAFETY PROCEDURES

See Attachment B – Site-Specific Health and Safety Plan.

#### **ATTACHMENT A**

**EXAMPLE CHAIN OF CUSTODY** 

	N			PL	SPL, Inc.	•				SPL Workorder No.	No.		187754	
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Client Name:				I	ıtrix	bottle	size	pres.		Re	Requested An	Analysis		
Address:					lio=									
Phone/Fax:									SJ					
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Contract 72hr	Standard QC	Standard QC L Level 3 QC		Level 4 QC		TX TRRP	LA RECAP	A.P.						
24hr Standard	1. Relinquish	1. Relinquished by Sampler:					date	1.2	time	2. Received by:				
48hr 🔲	3. Relinquished by:	ed by:					date	Έ	time	4. Received by:				Ì
Other [	5. Relinquished by:	ed hy:					date	ţ <del>;</del>	time	6. Received by Laboratory:	aboratory:			
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#### **ATTACHMENT B**

SITE-SPECIFIC HEALTH AND SAFETY PLAN

## SITE-SPECIFIC HEALTH AND SAFETY PLAN

A. ADMINISTRATIVE INFO	ORMATION
SITE: LISBON REFINERY JV, LLE	PROJECT NO: 4399R
LOCATION: LISBON, LA	PROJECT NAME:
LA HWY 2 10.4 MILES WEST OF BERNICE	OIL SAMPLING
AREA OFFICE: SHREVEPORT	PROJECT MGR: GRM
EFFECTIVE PERIOD: PROTECT DURATION	ISSUE DATE: 4-23-09
B. SITE INFORMAT	TION
FACILITY DESCRIPTION: Size: ~ZO ACRES	Buildings: / TRAILER
MAP: SEE ATTACHMENT 1	
Topography: HILLY TERRAIN - SLOPES	TO SONTH
Human Populations or Ecologically Sensitive Areas: SPA	RESIDENCE WOODS TO SOUTH.
Unusual Features (dike integrity, power lines, terrain, etc.):    HAZARD   EARTHEN BETZMS   FLAMMA     Access or Other Problems: N/A   History (injuries, complaints from public; previous agency a LDER / USEPA ENFORCEMENT ONSOING	Ction):
C. WORK ACTIVITIES/SPECI	FIC HAZARDS
WORK OBJECTIVE: SAMPLE OIL FROM	TANKS
FIELD ACTIVITIES: FILL CONTAINERS	
DOCUMENTATION/SUMMARY:  Known Hazards: FIRE, OIL Overall Hazard:  SPILL, TRIP HAZARD  OIL EXPOSURE	Serious: Moderate: X Unknown:
WASTE TYPE(S): Liquid: Solid: Slud	ge: Gas:
CHARACTERISTICS: Corrosive: Ignitable: Reactive:	Radioactive: Volatile: Unknown: Other:
Attach MS DSs from client or C-K Associates' files	

D	. HAZARD RECOG	NITION & CONTROL
SAFETY MEETING(S): Notes:	Date(s):	Personnel Attending: SEE ATTACHMENT 2

ACCIDENT/INCIDENT REPORTS: Any incident involving injury or illness will be immediately reported to the C-K Associates' Site Safety Officer (SSO). The SSO will handle the incident in accordance with the C-K Associates' Safety and Health Manual or the facility manual, whichever is appropriate.

UNSAFE ACTS: All employees and sub-contractors are responsible to stop and report any unsafe acts or conditions observed during the course of the work.

INSPECTIONS: All employees and sub-contractors are responsible for continuously inspecting the equipment they are using, and the work site to insure that unsafe conditions do not exist. Any unsafe condition should be corrected immediately, or, if it is of such severe nature that it impacts the work of others, should be reported immediately, and the work stopped until the condition is corrected.

#### E. GENERAL HEALTH & SAFETY REQUIREMENTS

PROHIBITIONS: Specific prohibitions listed in the C-K Associates' Personnel Manual are applicable here. In addition, any facility-specific prohibitions (such as open flames, firearms, etc.) are also prohibited. The use of intoxicants or stimulants (other than caffeine in coffee or soft drinks) is grounds for instant dismissal from the work site. All personnel are to notify the C-K Associates' On-site Coordinator of any medication prescribed by a physician that will be taken during work hours.

SAFETY ORIENTATION MEETINGS: A safety orientation meeting shall be held on the work site at the start of each job. If the job is of sufficient length, safety meetings will be held weekly until job completion. The meeting will include all employees (including sub-contractors). Attendees will sign the attendance form (Attachment 2) to acknowledge receipt of the orientation. Any new employees joining the job after the safety orientation will receive the briefing individually and will sign the form after receipt of the training. In signing the form, all employees acknowledge that they have received medical clearance to work on the job, and the appropriate level of OSHA training.

VISITORS: Any visitor to the job site must first receive facility clearance (if the job requires) and then report to the C-K Associates' SSO to receive the safety orientation.

F. SITE SPECIFIC	HEALTI	H & SAI	ETY RE	QUIRE	MENTS	
PERSONAL CLOTHING: Level	of Protect	ion:	A: <u>X</u>	B:	C:	D:
Modifications: GLASSES, G	LOVES					
Surveillance Equipment and Materi	als:	NONE	- OPE	N AII	R SAM	PUNG
EQUIPMENT CHECKLIST:					,	
SCBA			Cylinders	5		
Air-Purifying Respirator			Cartridge	s (OV/a	acid gas)	
Explosimeter Vapor Detector			Eye Was	h Unit		
O <sub>2</sub> Indicator	Parallel State of the State of		First Aid	Kit		
Air Sample Pump and Tubes			Drinking	Water	Supply	
Radiation Survey Meter	-		Personal	Clothin	g	
Radiation Contamination Meter			Decontar	nination	Materials	V
Fire Extinguisher Type			Organic	Vapor I	Detector(s)	
Life Jackets				T	уре:	
Personal Escape Units			Mobile 7	le lephor	ne	
HAZARDOUS SUBSTANCES:						
Chemical OSHA	PEL	TL	V-STEL	0	dor Thres	hold (ppm)
DIL N/	A		1/1		N/A	
				_		

G. EMERGENCY RESPON	SE PROCEDURES
MERGENCY PRECAUTIONS:	
Acute Exposure Symptoms	First Aid
SPITALS/POISON CONTROL CENTERS (SEE AT	CLAIBORNE PARISH S
HOSPITAL: 318-927-2024	POLICE: 318-927-2011
FACILITY SAFETY: NA	FIRE: 318-353-4503
ERGENCY ALARMS AND ESCAPE ROUTES:	
EVACUATION TO LAZ VIA EVACUATION NOTIFICATION:	N.E. OR N.W. GATE
VERBAL NOTIFICATION BY FACE	ILITY MANJAGER
VOICE TOUTH OF THOSE BY THOSE	

## H. KEY PERSONNEL

Person	Project Activities/	Training	Training Provided?		Medical Monitoring?		
	Duties	Yes	No	Yes	No .		
GORDON MOORE	PM	X		У			
GORDON MODRE RONNIE JACKSON	LISBON MGR.						

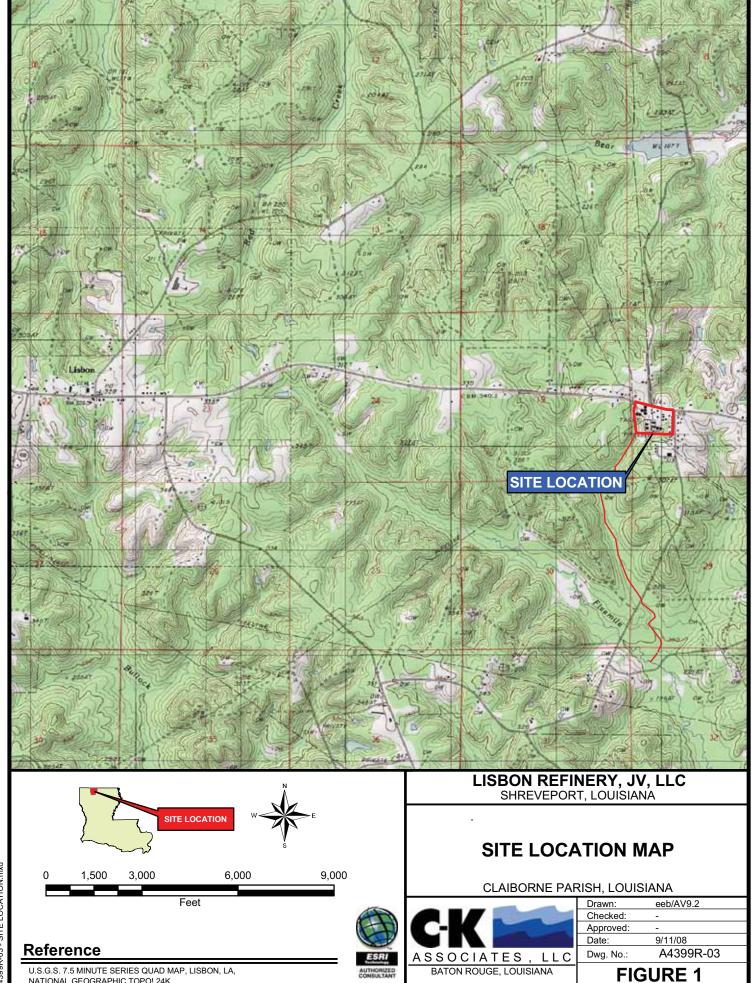
I. APPROVALS	
Α	
C-K Associates' Health & Safety Coordinator	Date
B. Division Project Manager	4-23-09 Date
C	
Site Safety Officer	Date

NOTE:

Upon completion of all field activities the completed form (with all attachments) must be placed in the project files. A copy must be submitted to the Project Manager and to the C-K Associates' Health and Safety Coordinator.

## **ATTACHMENT 2**

1	PERSONNEL ATTENDANCE R	OSTER
PROJECT NO. 4399/		
ROJECT NAME: 🔐	SAMPLING	
ITE/LOCATION:	BON REFINERY JV, L	LC
gree to abide by the requir	the site-specific Health and Safety Placements contained therein. By significal clearance and OSHA safety training	ing this document I attest that I hav
IAME (print)	SIGNATURE	DATE
- Marana - M		
•		
		Carallel Communication Communi
The above personnel have	received a safety orientation briefing	from me or my designee."
		•
	C-K Asso	ociates, Inc. Site Safety Officer



A4399R-03 - SITE LOCATION.mxd

NATIONAL GEOGRAPHIC TOPO! 24K.